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## Collagen Structure Mechanics

**confocal rheology probes the structure and mechanics of ...** - confocal rheology probes the structure and mechanics of collagen through the sol-gel transition khang-hoa tran-ba,1 daniel j. lee,1 jieling zhu,1 keewook paeng,1 and laura j. kaufman1,\* 1department of chemistry, columbia university, new york, new york abstract fibrillartypeicollagen ... **collagen structure and mechanical properties of the joan ...** - collagen structure and mechanical properties of the human sclera: analysis for ... to investigate the role of scleral mechanics in the development of myopia, it is important to determine the me-chemical behavior and microstructure of the sclera at different ages. in this study, we estimate the effects of age on the collagen ... **structure-mechanics relationships of collagen fibrils in ...** - severely impairs the structure and mechanics of collagen-rich tissues at the tissue and organ level, the main aim of this study was to investigate how the structure and mechanics are altered in oim collagen fibrils. **molecular mechanics of mineralized collagen fibrils in bone** - molecular mechanics of mineralized collagen fibrils in bone arun k. nair1, alfonso gautieri1,2, shu-wei chang1 & markus j. buehler1,3,4 bone is a natural composite of collagen protein and the mineral hydroxyapatite. the structure of bone is known to be important to its load-bearing characteristics, but relatively little is **effects of tissue hydration on nanoscale structural ...** - matrix for numerous tissues. despite collagen's importance, little is known about its nanoscale morphology in tissues and how morphology relates to mechanical function. this study probes nanoscale structure and mechanical properties of collagen as a function of disease in native hydrated tendons. **collagen structure deciphered - mit** - collagen structure deciphered cambridge, mass.—for the first time, an mit researcher's atom-by-atom study of the ... mechanics modeling laboratory at mit. buehler's work represents a breakthrough in understanding how molecular and tissue properties are linked. the smallest building blocks of collagen, called tropocollagen molecules, are five to **modelling the mechanics of partially mineralized collagen ...** - modelling the mechanics of partially mineralized collagen ... collagen's nanoscale structure involves triple-helix collagen molecules, 300 1.5 nm diameter, that self-assemble into fibrils in a well-aligned but twisted and quasi-triclinic molecular packing [19]. within fibrils, collagen **the connection of composition, structure, and dynamic ...** - the connection of composition, structure, and dynamic processes to tendon mechanics: structure-function relationships in collagen v deficient tendons brianne kathryn connizzo dr. louis j. soslowsky tendons are able to withstand a broad range of stresses and strains via their finely tuned composition and structure. **biomechanics of soft tissue** - biomechanics of soft tissue by gerhard a. holzapfel ... based on the theory of the mechanics of fiber-reinforced composites [26] and is suitable to describe ... background on the structure of soft tissues - collagen and elastin what do we mean by soft tissues? a primary group of tissue which binds, supports and protects **relationships between decorin and biglycan, structure and ...** - relationships between decorin and biglycan, structure and tendon mechanics using mutant mouse models abstract tendons have a complex mechanical behavior that depends on their composition and structure. **myocardial mechanics and collagen structure in the ...** - amount, and structure of collagen fibers in these pathologies has provided insight into the functional role of myocardial collagen.7,8 indeed, most of our knowledge of the structural contribution of collagen to ventricular wall mechanics has been deduced either from comparative studies using animal models of complex, multifactorial pathologies7 ... **the micromechanics of three-dimensional collagen-i gels** - briefly, we labeled bovine collagen type i with the fluo-res-cent molecule tamra. collagen solution at final concentra-tions of 0.5, 1.0, and 1.5mg/ml were prepared, and a leica sp5 resonant confocal microscope with a 63x 1.2-na water immersion objective was used to image the collagen sam-ples. four networks at each density were extracted ... **extracellular matrix structure and nano-mechanics ...** - in mks seemed not to be affected by collagen structure and nano-mechanics. therefore other, yet unknown, receptors may cooperate with alpha2beta1 to regulate mk function on type i collagen in a structure-dependent manner. **noninvasive assessment of collagen gel microstructure and ...** - noninvasive assessment of collagen gel microstructure and mechanics ... (17,18), and depends upon collagen's structure at the noncentrosymmetric secondary (triple helix) level, and upon molecular packing and scattering on the tertiary(fibril),andquaternary(fibers)levelsoforganization.

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